

## **BACKPACK WITH UMBRELLA SUPPORT**

### **Foreign Claim of Priority**

[0001] This application claims the benefit of Chinese Patent Application No. 03226493.3 filed May 22, 2003.

### **Background of the Invention**

[0002] The present utility model pertains to a modified structure of a backpack umbrella support.

[0003] In order to facilitate use by people, a backpack or bicycle umbrella has hit the market, wherein the umbrella is mounted on the backpack or bicycle with a fixed support, thereby eliminating the need for the user to keep the umbrella spread by using both hands.

[0004] As far as the backpack umbrella is concerned, mounting is typically as follows: a fixed support is mounted on the backpack; the fixed support generally contains a holder. Then, the handle of the umbrella is screwed onto the holder. This method, however, has the following inadequacy: as the backpack is slung over the back of the human body, the backpack tends to tilt backwards, which causes the umbrella to tilt backwards when the umbrella is mounted on the backpack; this tilting makes it impossible for the canopy of the umbrella to provide a full shelter on top of the human body, thereby undermining the protection against the sunlight or rain.

### **Summary of the Invention**

[0005] The present utility model is intended to provide a modified structure of a backpack umbrella support which allows the umbrella to stay closer to the human body.

[0006] In order to achieve the above purpose, the technical solution of the present utility model is as follows: a modified structure of a backpack umbrella support, wherein the support is fixed

on the backpack and has a holder on the top, and the umbrella handle is mounted on the holder, which tilts towards the human body at an angle.

[0007] The connection surface of the support and the backpack is the curved surface pressing onto the back of the human body.

[0008] The holder tilts towards the human body at an angle ranging from 5 to 20 degrees.

[0009] The umbrella handle and the holder are connected by screwing or clamping.

[00010] The said technical solution allows the holder of the support in the present utility model to tilt towards the human body at an angle, which causes the umbrella fixed onto the holder to tilt towards the human body, thereby covering the entire body under the canopy of the umbrella, and providing better protection against the sunlight or rain.

[00011] Furthermore, as the connection surface of the support and the backpack is of a curved surface design, the curved surface can match the back of the human body, which allows the support press more closely onto the back of the human body, thereby preventing the umbrella from tilting backwards.

### **Brief Description of the Drawings**

[00012] The particular features and advantages of the invention as well as other objects will become apparent from the following description taken in connection with the accompanying drawings in which:

Fig. 1 is a three-dimensional breakdown drawing of the present utility model;

Fig. 2 is a three-dimensional constitutional drawing of the present utility model;

Fig. 3 is a schematic drawing of the present utility model in actual use status.

### **Detailed Description of the Preferred Embodiment**

[00013] As shown in Fig. 1, the backpack has an umbrella support **2** inserted into the holding pouch **21** on an inner side or front of the backpack **2**. The holding pouch **21** is sewn onto the side close to the back of the human body when worn. The portion of the backpack **2** above the holding pouch **21** has a slot **22**. The slot **22** is preferably provided with a cover **23**.

[00014] The backpack contains two straps **14,16** as are known in the art. The straps extend over the arms of a user so that an individual's back (not shown) is adjacent the front **32** of the backpack **2**.

[00015] The top of the support **1** has a holder **11**; the holder **11** has external screw threads. The holder **11** tilts towards the human body at an angle, which should be preferable between 5 to 20 degrees. The connection or front surface **12** of the support **1** and backpack **2** are both curved surfaces pressing onto the back of the human body.

[00016] The support **1** preferably extends at least partially along axis **18** which is preferably perpendicular to a surface that the backpack is transported over such as the ground. The axis **18** is perpendicular to a direction of the front **32** of the backpack **2**. Accordingly, when in use, the axis **18** is parallel to a back of the human body so that the holder **11** is angled between 5 and 20 degrees relative to the axis **18** as well as the human body. The holder **11** connects to the support **1** at a base **20**. The base **20** is preferably perpendicular to the axis **18**. A perpendicular axis **50** is perpendicular to the axis **18**. Perpendicular axis **50** and base **20** are parallel in the preferred embodiment.

[00017] The bottom end of the umbrella handle **3** contains a tap hole **31**.

[00018] As shown in Fig. 2, for connection, insert the support **1** into the holding pouch **21**; to increase stability, a set of screws and nuts can be used to mount the support **1** on the backpack **2**.

For use, simply twist the tap hole **21** on the umbrella handle **3** onto the external screw threads on the holder **11**; thus, the umbrella can be maintain in place on the backpack **2**.

[00019] As shown in Fig. 3, as the connection surface **12** of the support **1** and the backpack **2** is of a curved surface design; the curved surface can press closely onto the back of the human body, thereby making the support **1** closely fit the human body; as the holder **11** tilts towards the human body at an angle, the umbrella mounted onto the holder **11** tends to tilt towards the human body, thereby putting the entire human body under the shelter of the umbrella canopy.

[00020] Furthermore, the holder **11** on the support **1** and the umbrella handle **3** in the present utility model can be connected by ways other than the above screwing method; clamping or any other connecting methods may also be used.

[00021] Numerous alterations of the structure herein disclosed will suggest themselves to those skilled in the art. However, it is to be understood that the present disclosure relates to the preferred embodiment of the invention which is for purposes of illustration only and not to be construed as a limitation of the invention. All such modifications which do not depart from the spirit of the invention are intended to be included within the scope of the appended claims.

[00022] Having thus set forth the nature of the invention, what is claimed herein is: